

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,323	10/31/2003	Mark Buchler	ITL.1025US (P16712)	9811	
21906 TROP PRUNE	7590 03/06/2007 R & HI I PC		EXAMINER		
1616 S. VOSS	ROAD, SUITE 750		EL ARINI	L ARINI, ZEINAB	
HOUSTON, T	X 77057-2631		ART UNIT PAPER NUMBER		
			1746		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	03/06/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		10/698,323	BUEHLER, MARK	
		Examiner	Art Unit	
		Zeinab E. EL-Arini	1746	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence addre	?ss
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO	ON.  timely filed  om the mailing date of this comm  NED (35 U.S.C. § 133).	
Status				
·	Responsive to communication(s) filed on 12 D.  This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under the second sec	s action is non-final. ince except for formal matters, p		erits is
Dispositi	on of Claims			
5) □ 6) ⋈ 7) □ 8) □ <b>Applicat</b> i 9) □ 10) □	Claim(s) 1-34 is/are pending in the application 4a) Of the above claim(s) 24-34 is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-23 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examine The drawing(s) filed on is/are: a) according a continuous applicant may not request that any objection to the Replacement drawing sheet(s) including the correct that are declaration in the specification of the specific and specific according to the specifi	er. cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR	
·	The oath or declaration is objected to by the E	xaminer. Note the attached Oni	ce Action or form PTO-	152.
12) [ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applic prity documents have been rece tu (PCT Rule 17.2(a)).	ation No ived in this National Sta	age
2) Notice (3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		

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## **DETAILED ACTION**

The remarks filed 12/12/06 has been acknowledged and entered.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-23 are rejected under 35 U.S.C. 102(a) as being anticipated by Wang et al. (6,638,143).

Wang et al. disclose a method comprising cleaning a semiconductor wafer using a polymer brush having ligands attached along a polymer. Re. the limitations of claims 1-23, see the abstract, col. 3, lines 57-63, col. 4, lines 8-17, 26-30, col. 5, lines 45-57, and col. 12, line 9-col. 13, line 5.

## Response to Arguments

Applicant's arguments filed 12/12/06 have been fully considered but they are not persuasive. Applicant's argument with respect to Wang et al. do not teach attaching ligands along a polymer bristle, is unpersuasive for the reason set forth in col. 5, lines 45-52. With respect to the limitations of claims 2-23, applicant's argument is unpersuasive, because for the reason set forth in 07claims 1-23, see the abstract, col. 3, lines 57-63, col. 4, lines 8-17, 26-30, col. 5, lines 45-57, and col. 12, line 9-col. 13, line 5. This is also because said limitations are inherent in the Wang et al. process. 3.

## Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zeinab Elarini Zeinab E. EL-Arini Primary Examiner Art Unit 1746

ZEE 3/3/07